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PTO-1449 U.S. Department of Commerce Patent and Trademark Office Atty. Docket No. | Serial No. | 62942-B/JPW/AJD | 09/912,824 | Applicant(s) | Graham P. Allaway et al.

## INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)

Filing Date Group Art Unit July 25, 2001 1648

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<sup>&</sup>lt;sup>§</sup> Note that this column shows Exhibit numbers, <u>not</u> reference numbers. Reference numbers are listed on pages 14-31 of the attached Amendment.

1 Graham P. Allaway et al. INFORMATION DISCLOSURE CITATION Filing Date Group Art Unit (Use several sheets if necessary) July 25, 2001 1648 U.S. PATENT DOCUMENTS **Document Number** Date Examiner Exh. Name Class Subclass Filing Date Initials No.5 If Appropriate 11/30/99 Hoxie . 5 03/04/03 5 8 2 Wu et al. 6 6 2 6 5 7 04/15/03 5 4 8 6 3 6 Dragic et al. 6 9 2 7 4 5 02/17/04 Olson et al. 8 6 6 9 6 5 9 5 07/06/04 Li et al. 10 Pending claims in Allaway et al. 06/25/01 09/888,938 FOREIGN PATENT DOCUMENTS Translation **Document Number** Date Country Class Subclass Yes No 46 12/04/97 PCT 5 5 47 9 7 4 7 3 9 12/18/97 PCT 1 48 9 7 4 9 4 2 12/31/97 PCT 49 9 8 1 8 8 2 6 05/07/98 **PCT** 50 5 2 1 12/17/98 **PCT** 6 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Brelot, A. et al. (1997) Role of the first and third extracellular domains of CXCR4 in human immunodeficiency virus coreceptor activity. J. Virol. 71: 4744-4751; Burkly, L. et al. (1995) Synergistic inhibition of human immunodeficiency virus type 1 66 envelope glycoprotein-mediated cell fusion and infection by an antibody to CD4 domain 2 in combination with anti-gp120 antibodies. J. Virol. 69: 4267-4273; 67 Burton, D.R. et al. (1994) Efficient neutralization of primary isolates of HIV-1 by a recombinant human monoclonal antibody. Science 266: 1024-1027; Capon, D.J. et al. (1989) Designing CD4 immunoadhesins for AIDS therapy. Nature 337: 525-531; Chan, D.C. et al. (1998) Evidence that a prominent cavity in the coiled coil of HIV type 69 1 gp41 is an attractive drug target. Proc. Natl. Acad. Sci. U.S.A. 95: 15613-15617; 70 Chan, D.C. et al. (1998) HIV entry and its inhibition. Cell 93: 681-684; **EXAMINER** DATE CONSIDERED \*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609 Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s) Patent and Trademark Office Graham P. Allaway et al. INFORMATION DISCLOSURE CITATION Filing Date Group Art Unit (Use several sheets if necessary) July 25, 2001 1648 U.S. PATENT DOCUMENTS Exh. **Document Number** Date Class Examiner Name Subclass **Filing Date** No.5 Initials If Appropriate 20 09 2 Olson et al. 4 6 4 12/16/99 21 09 5 9 4 9 8 3 Olson et al. 06/15/00 22 09 6 6 3 2 1 9 Olson et al. 09/15/00 23 2 2 Olson et al. 60 8 3 8 0 04/06/01 24 2 Olson et al. 60 6 6 7 3 8 02/06/01 25 2002/0146415 10/10/02 Olson et al. 26 0 8 1 1 2 8 Olson et al. 02/22/02 OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) Donzella, G.A. et al. (1998) AMD3100, a small molecule inhibitor of HIV-1 entry via the CXCR4 co-receptor. Nat. Med. 4: 72-77; 83 Doranz, B.J. et al. (1997) A small molecule inhibitor directed against the chemokine receptor CXCR4 prevents its use as an HIV-1 co-receptor. J. Exp. Med. 186: 1395-1400; Doranz, B.J. et al. (1996) A dual-tropic primary HIV-1 isolate that uses fusin and betachemokine receptors CKR-5, CKR-3, and CKR-2b as fusion cofactors. Cell 85: 1149-1158; 85 Doranz, B.J. et al. (1997) Two distinct CCR5 domains can mediate co-receptor usage by human immunodeficiency virus type 1. J. Virol. 71: 6305-6314; 86 Dragic, T. et al. (1996) HIV-1 entry into CD4+ cells is mediated by the chemokine receptor CC-CKR-5. Nature 381: 667-673; 87 Eckert, D.M. et al. (1999) Inhibiting HIV-1 entry: Discovery of D-peptide inhibitors that target the gp41 coiled-coil pocket. Cell 99: 103-115; 88 Feng, Y. et al. (1996) HIV-1 entry cofactor: Functional cDNA cloning of a seventransmembrane, G protein-coupled receptor. Science 272: 872-877; Ferrer, M. et al. (1999) Selection of gp41-mediated HIV-1 cell entry inhibitors from 89 biased combinatorial libraries of non-natural binding elements. Nature Struct. Biol. 6: Fouts, T.R. et al. (1997) Neutralization of the human immunodeficiency virus type 1 90 primary isolate JR-FL by human monoclonal antibodies correlates with antibody binding to the oligomeric form of the envelope glycoprotein complex. J. Virol. 71: 2779-2785; 91 Fradd, F. et al. (1989) AIDS Vaccines: An Investor's Guide by Shearman Lehaman Hutton. Page 10 (Fig. 2);

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 $<sup>^{\</sup>S}$  Note that this column shows Exhibit numbers, <u>not</u> reference numbers. Reference numbers are listed on pages 14-31 of the attached Amendment.